Extra Content for Foundation GCSE



94. Equations vs Identities: Understanding the Difference

Practice Questions

- 1. Is 2x + 3 = 7 an equation or an identity?
- 2. Is $(x+1)(x-1) = x^2 1$ an equation or an identity?
- 3. Determine whether 3(x+2) = 3x + 6 is an equation or an identity.
- 4. Is $x^2 4 = 0$ an equation or an identity?
- 5. Identify if a+b=b+a is an equation or an identity.
- 6. Determine whether 5y 10 = 2y + 8 is an equation or an identity.
- 7. Is 4(2x+3)=8x+12 an equation or an identity?
- 8. Identify if $\sin^2 \theta + \cos^2 \theta = 1$ is an equation or an identity.
- 9. Is $x^2 9 = (x+3)(x-3)$ an equation or an identity?
- 10. Determine if y = mx + c is an equation or an identity.

Scenario Questions

- 1. A shopkeeper calculates total cost using C=5x+2. Is this an equation or an identity?
- 2. A student simplifies $(a+b)^2 = a^2 + 2ab + b^2$. Is this an equation or an identity?
- 3. A scientist uses F=ma for force. Is this an equation or an identity?
- 4. A manufacturer finds that 2(x+3)=2x+6 always holds. Is this an equation or an identity?
- 5. A builder uses Area = length × width to calculate flooring. Is this an equation or an identity?
- 6. A programmer writes x+y=y+x for addition order. Is this an equation or an identity?
- 7. A bank computes interest using $A=P(1+rac{r}{n})^{nt}$. Is this an equation or an identity?
- 8. A physicist writes $E=mc^2$. Is this an equation or an identity?
- 9. A student rewrites $x^2-y^2=(x+y)(x-y).$ Is this an equation or an identity?
- 10. A statistician defines mean as Mean = (Sum of values) ÷ (Number of values). Is this an equation or an identity?

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Practice Questions

- 1. Equation
- 2. Identity
- 3. Identity
- 4. Equation
- 5. Identity
- 6. Equation
- 7. Identity
- 8. Identity
- 9. Identity
- 10. Equation

Scenario Questions

- 1. Equation
- 2. Identity
- 3. Equation
- 4. Identity
- 5. Equation
- 6. Identity
- 7. Equation
- 8. Equation
- 9. Identity